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CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

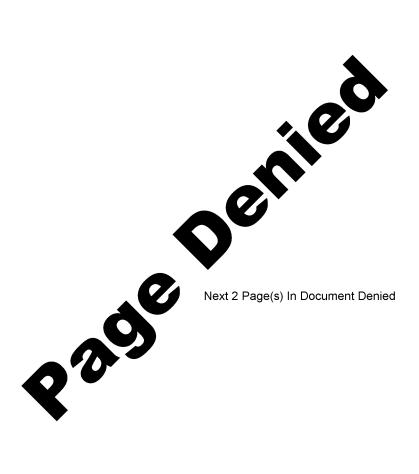
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	SECF	ET			∮ 50X1-HUM	
COUNTRY	USSR (Moscow and Kalinin Obla	ısts) ı	REPORT			
SUBJECT	Development of the R-10,		DATE DISTR.	12 April 1954		
	R-14, and R-15 Missiles		NO. OF PAGES	. 1	50X1-HUM	
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1. <u>D</u>	Developments - R 10 50X1-H
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. 1	the most important work included two 50X1-
surface	the most important work included two 50X1- weapons known as the R 10, and R 14 of which certain details have
	been learnt.
2. T	he R 10, a radically modified version of the A4, originally
proposed	d by the Germans, was the subject of Conference at NII 88 in 1947
and 1948	8. The first conference resulted in a Russian request to continue dy as, by that time, the Germans had not prepared sufficient data
for a de	ecision to be made. About one year later in December, 1948, the
project	study had been completed and the German groups proposals were
submitte	ed before the Scientific and Technical Council at NII 88.
The	e study was accepted and it was confirmed that work was along the
right li	ines and money was allocated for some preliminary necessary
experime	ents, including exhaust gas utilization.
יתיו	he nemero had to be submitted some the mouth begins it is
and were	he papers had to be submitted some two months before the Conference e on the various topics of Ballistics, Aerodynamics, Body Structure,
Power F	lant, Controls, Ground equipment, Static Calculations. Stability
and Cont	trol, to a total of some 700 pages.
Cara Court	
	50V1 L
	In addition to these there were some 200 drawings and a 50X1-F
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by the gyros whi		placements from	the beam ax	is Were corre	cted	
via the same gyr	o system.				sar di T	
6. <u>Propulsion</u>						
The power pl	ant was a 35 to	on thrust motor	using liqui	d oxygen and		
alcohol and was pump of the A4,	based upon the but with an over	normal combusti erall re-design to MTP system to	on chamber and using a	end the turb		
7. General						
major re-design war head was loo body at fuel cut	of the body, are seely fitted to to off. The cer	the front tank a atre part consta	ioning of c nd separate ted to two	omponents. d from the m enlarged fue	The ain I tanks	
"re-designed con hind the tanks. "VERTIKANT" gyro	npletely for pro This was poss os were now rep	laced by much sm	." ontro	ls were plant HORIZONT an	to-	
mounted on the s	car end of the	fuel tank.				50X1-HUM
8. Comments.						
	the assembly wi	O every care was th a view to eas as found possibl	e of produc	tion in the	future:	
components for the line valves	the R 10 design	as compared wit				
	<u> </u>	<u> </u>		e je samoje je e sto		50X1-HUM
9. R 10 Cor	ference.				: 24 -	
The Dece	ember 1948 Conf	erence at NII 88	'omsisted			
Scientific and	i Technical Cou	ncil and other o	bservers.	The total n		
included acade	emicians, member	rs of the Russia	n Air Force	military	θ.,	
personnel and	representative	s from TsAGI.	KOROLOV was	present.		
10. Parallel	l Russian Devel	opment to R10				
i e ji e se stati ya ga						50X1-HUM
there is an ir	of KOROLOV	ian parallel dev	elopment in KOROLOV pro	progress un ject.	der	50X1-HUM
length and add	this too is b	is will be refer ased originally e. It is suppo	on the A4 b	ut with inor	eased	50X1-HUM
OD Am (Less t	than the R10).					50X1-HUM
<u>. </u>						JUX 1-1 IUIV
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					1 m	
				The grant of the second		
11. <u>Indicati</u>	ons of Develop	ment and Product	<u>ion</u>		·	
K.1. projects It is stated to OSTASHKOV with	now. This int	there may be pro formation is not Russians appro information on	yet fully ached the G	substantiate armans at	đ.	50X1-HUM
body. Further	r, a firing	g of some missil	e, directed	by KOROLOV,	had	

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taken place but the results were not 100 per cent successful.
In 1950 or 1951 MIZKEVITCH, leader of the OSTASHKOV test stand group
and another Russian left the Island for some six months. Previously
full scale R 10 combustion chambers had been modified for gas bleed-
ing and the test equipment provided "fitted" on the KAFUSTIN YAR Test
Stand. This equipment had been dispatched, presumably to KAHUSTIN
YAR. The Russians on their return stated that the gas bleeding tests
had been successful but did not admit they had been to KAFUSTIN YAR.

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the main structure assembly line (for the A4) from MITTELWERK was rebuilt and demonstrated at NII 88 and "dispatched beyond the Urals" (Note: - This may or may not be supporting evidence of R 10 or K.1. project production).

Conception and Study. - R. 14. 12.

Ten advance proposals were considered as a result of a demand from USTINOV in the Spring of 1949, for a missile capable of carrying a useful load of 3,000 Kg to 3,000 km. No dimensional ponditions were laid down and preliminary answers were required in three months. Of these ten proposals, five were first selected, of which two projects were chosen for a detailed study. These were a ram jet project R 15 (reference paragraph 15) and a single stage ballistic rocket. the R 14. The R 14 design study was completed in December, 1949 and submitted to The report comprised sections on Ballisties, Aerodynamics, Control, Ground equipment, Body and Statics, Fower Flant calculations, and Stability investigations to a total of 1600 pages, together with 150 drawings and 80 posters. no meeting took place at which Germans were present, and although "brill ant in conception", it will be too great a technical advance to appeal to the

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Russians.

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the paper study of an underground Assembly factory combined with an operational underground firing point, the rocket being fired upwards through a vertical shaft. road transport will subject any rocket to unnecessary stresses

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with a range of several 1000 km, it was pointless to run the risk of damage for the sake of a few 100 Km change in firing position. The Russians however insisted on road transport as an elternative.

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The alternative solution to the long-range weapon problem of carrying 3,000 kg to 3,000 km was pursued with small effort chiefly by ALBRING and CONRAD who worked on this spasmodically without much support. They proposed a ram jet "glider" to be initially boosted by an Au motor which was to be jettisoned after rocket fuel cut off. Although initially it had been proposed by KIOSE (now dead) to fly the glider at 30 km altitude, it finally was designed by ALBRING to fly at 14 km height at a speed of Mach. 2. It was proposed to construct the ram jet using Ju 004 combustion chambers?! It was to be stabilised by gyros and cont Ju 004 combustion champers: it was to be stabilized by long-distance directional radio. There was no conference at the end of the study, and only a collection of separate reports on various 50X1-HUM aspects, together with some 200 drawings were produced.

16. Parallel Russian Development.

there is a second KOROLOV project in line with It is stated to have a range of 2,500 km, this being less than the R 15, but so far no evidence is offered to support this.

When the group re-organised in 1951 to work on non-military problems, two tasks were allocated in the Autumn of 1952 which were of a

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military character. One was the design of a Stathoscope, i.e. an instrument for maintaining constant barometric height, (the design height has been stated to be at 14 km.) and a gyro system following the 84 minute pendulum conception. These two instruments may or may not be associated with the R 15 or the long-range KOROLOV project.

17.	SANGER Project	50X1-HUM
	in 1947 the	· ·
SANGI	ER report was sent to OSTASHKOV for further study and comment.	. 50.74 11111
	· · · · · · · · · · · · · · · · · · ·	50X1-HUM
	Ground to Air Rockets	
	(a) Wasserfall	
		50X1-HUM
	number of these rockets had been fired. Production plans were	* * * * * * * * * * * * * * * * * * *
	drawn up by MENDE and another comparatively inexperienced production engineer during 1947 at	50X1-HUM
	NII. 88.	
	(b) Un-named Project	
		50X1-HUM
***	One project was worked upon by HUCH and ALBRING. It was	50V4 LUUM
	designated under the general Russian name 'ZENTTH' it had no "'R' number". considered	50X1-HUM
	to be very complicated in control. It had two wings	
	considered to be unimportant.	
[The Work was limished and the Russians vouchsafed no opinion	••
	on the project	:50X1-HUM
	(c) Other Projects	
	Some elementary work on the RHEINTOCHTER, SCHMETTERLING, TAIFUN was carried out on the island by the HOCH/ALBRING Groups.	
	mony maneting of outps.	- ² 50X1-HUM
	Organisation of G.W. Programme	
12.0		
GAIDU	Directly under the "Supreme Soviet" was an overiding committee with KOV as chairman (1947). Research work was distributed to various	
unive	relations and the main organisation was the Ministry of Armements in	
WILLG	h the 7th Principal Section under SFIRIDOV was the Rocket Section. Ministries concerned were:-	
`		•
t , •.	Ministry of Communications Electrical and Control	
	Equipment	
	Air Ministry Fower Flants	
	Aerodynamics, through TS.41.	
	Ministry of Agricultural Machinery and Transport. Gyros.	
	ZAGORSK:	
	- The state of the	50X1-HUM
	Toothing -0 C-1	
Chambe	ers as well as Turbo Pumps and complete propulsion units were	
planne	ed.	
- 1	Actual progress of the scheme was kent secret	50X1-HUM

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A possible pointer is the fact that SUCHOMLINOFF who for years was director of the Filiale (island) was transferred to ZAGORSK in 1952.

This is located near Factory No. 456 KHIMKI and close to the factory accommodation area, near the WASSERBAHNHOF. The accommodation is built into the Institute proper and both are new buildings.

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